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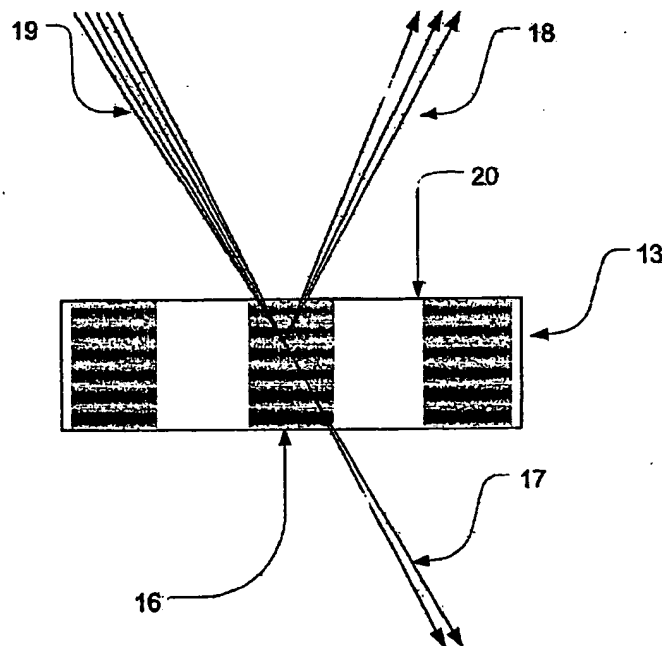
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(54) Title: **OPTICAL DATA CARRIER SYSTEM**



(57) Abstract: The present invention provides a method of holographically storing data as in a series of grating structures including m-level coded elements in an optical data carrier, wherein $m \geq 2$, the method comprising: forming a grating sampling function as a direct sum of N partial grating sampling functions, each partial grating sampling function having a phase (ϕ_n) and amplitude (d_n), wherein each d_n has m possible values.

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